CMS/LHC Update All Experimenters Meeting

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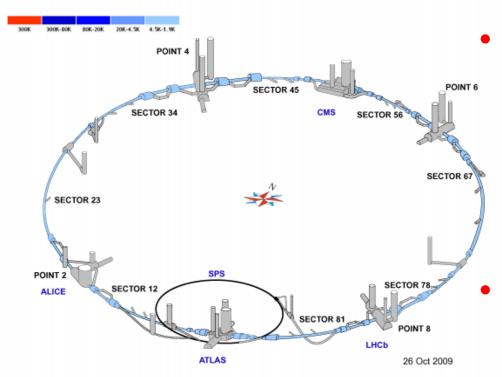
Outline

- LHC status
- CMS status



LHC status

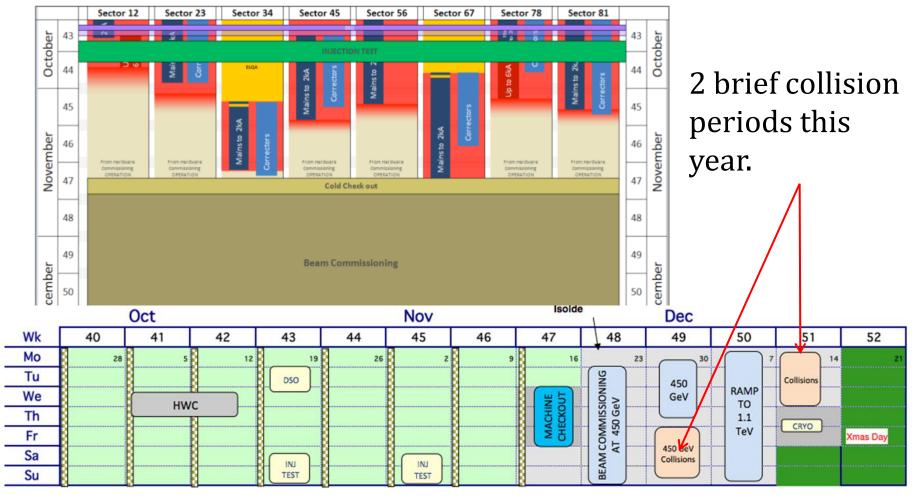




- The machine is cold.
- Successful injection tests in both directions over the weekend Oct.
 23 through Alice to point 3 and through LHCb to point 7.
 - Beam on collimator events expected in CMS during weekend Nov. 7 and 8.

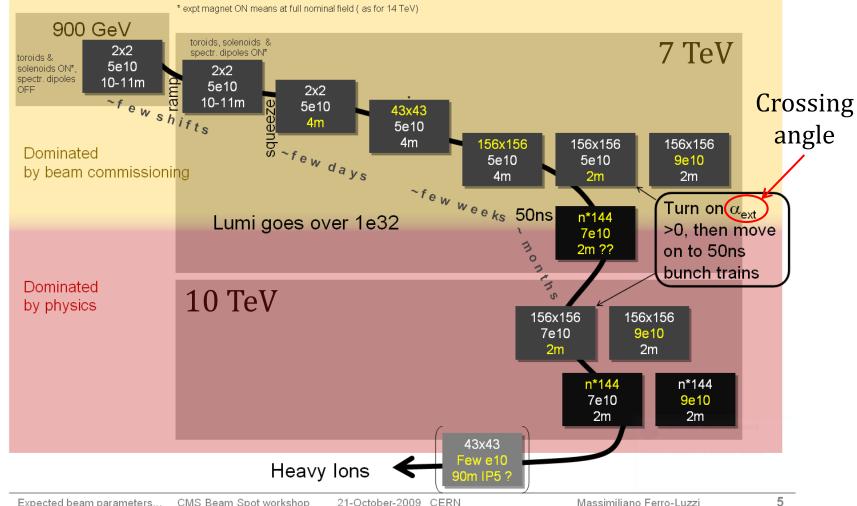
LHC status





Grand plan for LHC operation





Expected beam parameters...

CMS Beam Spot workshop

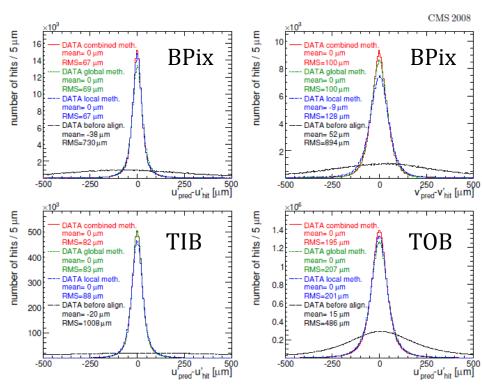
21-October-2009 CERN

Massimiliano Ferro-Luzzi

CMS activities



- Using the new cosmic data
 - detector alignment
 - detector performance
- Other activities
 - Cooling tower maintenance
 - Data transfer and analysis exercises
 - Final preparations

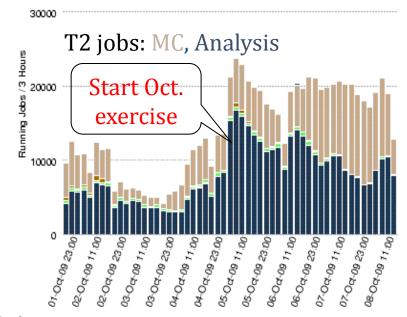


CMS October exercise



- Test the CMS computing and data models as realistically as possible.
 - Skim MC to make datasets to distribute to Tier 2 sites.
 - Test calibration and analysis workflows.
 - Stress test grid job submission and data transfer.

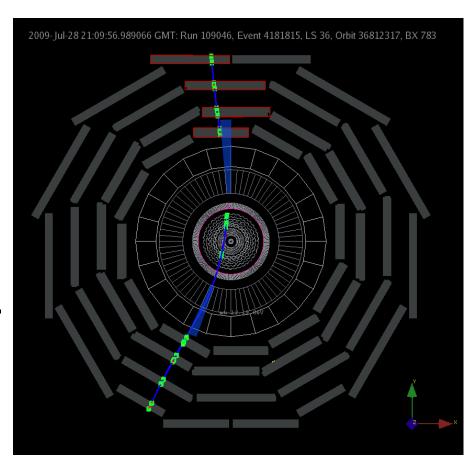
 Started out with a few hiccups, but they were quickly resolved and the test was overall a success.



CMS status



- CMS has completed a long cosmic data taking run.
 - over 300M cosmic triggers.
 - sustained high trigger rates.
 - sustained 24 x 7 operation.
- CMS is closed, powered, and subsystems are ready for beam.

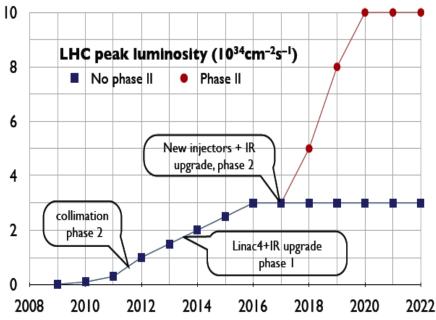


CMS is looking forward



- CMS is looking forward to beginning collisions, but also what the future holds.
- Last week there was an upgrade workshop here at Fermilab.
- At design luminosity of 10³⁴, the detector is good. Upgrade goes to 10³⁵.
- Upgrade development is already underway.

- Upgrades planned in:
 - Calorimetry
 - Tracking
 - Trigger
 - Muons



Bring On the Beam!